

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A disposable centrifuge rotor for fluid processing, said centrifuge rotor comprising:

a unitary first rotor portion including, as a part of its unitary construction, a first rotor shaft spud;

a unitary second rotor portion joined to said first rotor portion to define a rotor interior;

a unitary baseplate positioned in said rotor interior and being received by said second rotor portion, said baseplate including, as a part of its unitary construction, a second rotor shaft spud extending through and beyond said second rotor portion; and

a fluid processing element positioned in said rotor interior.

2. (Original) The centrifuge rotor of claim 1 wherein said first rotor portion is an all-plastic component of said centrifuge rotor.

3. (Original) The centrifuge rotor of claim 2 wherein said second rotor portion is an all-plastic component of said centrifuge rotor.

4. (Original) The centrifuge rotor of claim 3 wherein said baseplate is an all-plastic component of said centrifuge rotor.

5-10. (Canceled)

11. (Original) The centrifuge rotor of claim 1 wherein said first rotor shaft spud includes a first bearing surface and said second rotor shaft spud includes a second bearing surface that is coaxially aligned with said first bearing surface.

12. (Currently amended) A disposable centrifuge rotor for fluid processing, said centrifuge rotor comprising:

- a unitary, molded plastic first rotor portion;
- a plastic first rotor shaft spud ~~joined to~~ assembled into said first rotor portion, said first rotor shaft spud defining an interior passage for fluid delivery through said first rotor shaft spud;
- a unitary, molded plastic second rotor portion joined to said first rotor portion to define a rotor interior;
- a unitary, molded plastic baseplate positioned in said rotor interior and being received by said second rotor portion;
- a plastic second rotor shaft spud ~~joined to~~ assembled into said second rotor portion and defining a bearing surface extending beyond said second rotor portion, said first rotor shaft spud having a bearing surface that is coaxially aligned with the bearing surface of said second rotor shaft spud, said second rotor shaft spud defining an interior passage for fluid delivery through said second rotor shaft spud; and
- a fluid processing element positioned in said rotor interior and being received by said baseplate.

13-18. (Canceled)

19. (Original) The centrifuge rotor of claim 12 wherein each rotor shaft spud includes an abutment lip that is constructed and arranged to abut up against an outer surface of its corresponding rotor portion.

20. (Original) The centrifuge rotor of claim 12 wherein each rotor shaft spud includes an abutment lip that is constructed and arranged to abut up against an inner surface of its corresponding rotor portion.

21. (New) A disposable centrifuge rotor for fluid processing, said centrifuge rotor comprising:

- a unitary, molded plastic first rotor portion;
- a plastic first rotor shaft spud joined to said first rotor portion, said first rotor shaft spud defining a fluid bore;
- a unitary, molded plastic second rotor portion joined to said first rotor portion to define a rotor interior;
- a unitary, molded plastic baseplate positioned in said rotor interior and being received by said second rotor portion;
- a plastic second rotor shaft spud joined to said second rotor portion and defining a bearing surface extending beyond said second rotor portion, said first rotor shaft spud having a bearing surface that is coaxially aligned with the bearing surface of said second rotor shaft spud, said second rotor shaft spud defining a fluid bore;
- a fluid processing element positioned in said rotor interior; and
- wherein the construction and arrangement of said first rotor shaft spud is the same as the construction arrangement of said second rotor shaft spud.

22. (New) The centrifuge rotor of claim 21 wherein each rotor shaft spud includes an abutment lip that is constructed and arranged to abut up against an outer surface of its corresponding rotor portion.

23. (New) The centrifuge rotor of claim 21 wherein each rotor shaft spud includes an abutment lip that is constructed and arranged to abut up against an inner surface of its corresponding rotor portion.

24. (New) A disposable centrifuge rotor for fluid processing, said centrifuge rotor comprising:

- a unitary, molded plastic first rotor portion;
- a plastic first rotor shaft spud joined to said first rotor portion;

a unitary, molded plastic second rotor portion joined to said first rotor portion to define a rotor interior;

a unitary, molded plastic baseplate positioned in said rotor interior and being received by said second rotor portion;

a plastic second rotor shaft spud joined to said second rotor portion and defining a bearing surface extending beyond said second rotor portion, said first rotor shaft spud having a bearing surface that is coaxially aligned with the bearing surface of said second rotor shaft spud;

a fluid processing element positioned in said rotor; and

wherein the construction and arrangement of said first rotor shaft spud is the same as the construction and arrangement of said second rotor shaft spud.

25. (New) A disposable centrifuge rotor for fluid processing, said centrifuge rotor comprising:

a unitary, molded plastic first rotor portion;

a plastic first rotor shaft spud joined to said first rotor portion;

a unitary, molded plastic second rotor portion joined to said first rotor portion to define a rotor interior;

a unitary, molded plastic baseplate positioned in said rotor interior and being received by said second rotor portion;

a plastic second rotor shaft spud joined to said second rotor portion and defining a bearing surface extending beyond said second rotor portion, said first rotor shaft spud having a bearing surface that is coaxially aligned with the bearing surface of said second rotor shaft spud;

a fluid processing element positioned in said rotor; and

wherein each rotor shaft spud includes an abutment lip that is constructed and arranged to abut up against a surface of its corresponding rotor portion.

26. (New) A disposable centrifuge rotor for fluid processing, said centrifuge rotor comprising:

- a unitary first rotor portion including, as a part of its unitary construction, a first rotor shaft spud;
- a unitary second rotor portion joined to said first rotor portion to define a rotor interior;
- a unitary baseplate positioned in said rotor interior and being received by said second rotor portion;
- a second rotor shaft spud assembled into said second rotor portion and defining a bearing surface extending beyond said second rotor portion, said first rotor shaft spud having a bearing surface that is coaxially aligned with the bearing surface of said second rotor shaft spud; and
- a fluid processing element positioned in said rotor interior and being received by said baseplate.

27. (New) A disposable centrifuge rotor for fluid processing, said centrifuge rotor comprising:

- a unitary first rotor portion;
- a first rotor shaft spud assembled into said first rotor portion;
- a unitary second rotor portion joined to said first rotor portion to define a rotor interior;
- a unitary baseplate positioned in said rotor interior and being received by said second rotor portion, said baseplate including, as a part of its unitary construction, a second rotor shaft spud extending through and beyond said second rotor portion; and
- a fluid processing element positioned in said rotor interior.